

MISTED AIR CLEANING SYSTEM AND
RELATED METHOD

ABSTRACT OF THE DISCLOSURE

A system and related method for cleaning structures including structures with interior surfaces. The system includes a mixing chamber for selectively combining a cleaning gas and liquid droplets together so that the droplets are entrained in the gas. The combination is directed to the structure to be cleaned. The velocity of the gas combined with the density of the liquid droplets provides a washing momentum to effect removal of particulate matter from the structure. The system also includes a condenser and a separator for separating the liquid from the gas after cleaning. A filter is employed to isolate and measure the quantity of particulate removed from the cooling circuit. A rotameter forms part of the system and is used to measure the accumulated quantity of liquid suitable for effecting a satisfactory cleaning. The system and related cleaning method may be used to clean the cooling system of a rotor bucket.

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